



VIA EXPRESS MAIL #EL921977343US  
**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Hiroshi Akimoto and Okeksandr v. Monasyrskyi      Filing Date: 7/15/03  
Title: **MOTION COMPENSATION METHOD  
FOR VIDEO SEQUENCE ENCODING  
IN LOW BIT RATE SYSTEMS**      Group Art: Unknown  
Examiner: Unknown  
Serial No.: 10/620,879  
Docket No.: SCT105U

Office of Petitions  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION OF JOLENE MC CRACKEN**

I, Jolene McCracken, am competent to make the following declaration and state as follows:

1. I presently reside in Duvall, Washington. I was a patent legal assistant at Garrison & Associates PS, located at 2001 Sixth Avenue, Suite 3300, Seattle, WA 98121-2522 at the time the above-identified patent application was filed, which was July 15, 2003. I am competent to make the following declaration.
2. In my position as patent legal assistant at Garrison & Associates PS, under the supervision of both William L. Haynes and David L. Garrison, on July 15, 2003, I prepared the required filing papers for the above-identified patent application. The filing papers consisted of a postcard which contains an inventory of the documents to be mailed, a Transmittal of New Patent Application (5 pages), a Combined Declaration and Power of Attorney, executed and

Docket No.: SCT105U

dated by the inventors (2 pages), a credit card payment Form-2038 (1 page) to cover the patent filing fees, the utility patent application (22 pages), figures (10 sheets), an assignment recordation cover sheet (1 page) , and an assignment (2 pages), executed and dated by both inventors, and a credit card payment Form-2038 (1 page) to cover the assignment filing fee. The Transmittal of New Patent Application was executed by William L. Haynes and I executed the Certificate of Express Mailing paragraph certifying that I was responsible for mailing the package to the United States Patent and Trademark Office via Express Mail #EL929896256US on July 15, 2003.

3. I specifically inspected the documents before mailing them to the United States Patent and Trademark Office by Express Mail. All the documents listed on our postcard, a copy of which is attached to this declaration as Exhibit 1, specifically including the ten pages of drawing sheets attached to this declaration as Exhibit 2, were in the package I mailed.

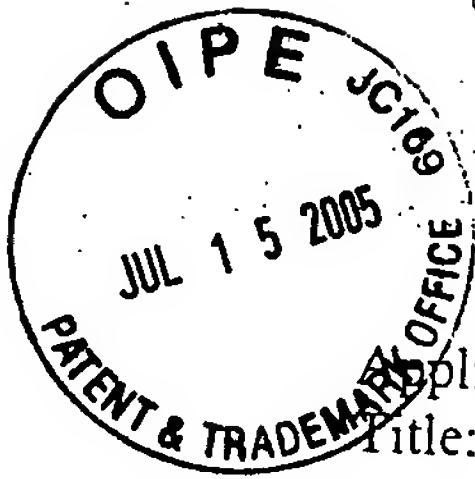
4. I attach a copy of the certificate of mailing with my signature thereon to this declaration as Exhibit 3.

I declare, under penalty of perjury, that the foregoing is true and correct, and all statements made of my own knowledge are true and all statements made on information and belief are believed to be true.

6-8-2005  
Date

Jolene McCracken  
Jolene McCracken

105U DECLARATION BY JOLENE MC CRACKEN.wpd



Applicants: Hiroshi Akimoto and Okeksandr v. Monasyrskyi  
Title: Motion Compensation Method for Video Sequence Encoding in Low  
Bit Rate Systems  
Docket No.: SCT105U

The U.S. Patent and Trademark Office Date Stamp Affixed Heron Will Acknowledge  
Receipt of the Following:

- 1.) Transmittal of New Patent Application (5 pages);
- 2.) Combined Declaration and Power of Attorney (2 pages);
- 3.) Credit Card Authorization Form in the amount of \$375 (1 page);
- 4.) Utility Patent Application (22 pages);
- 5.) Figures (10 sheets); and
- 6.) Notice of Recordation (1 page);
- 7.) Assignment (2 pages);
- 8.) Credit Card Authorization Form in the amount of \$40 (1 page); and
- 9.) Return Receipt Postcard .

Mailed July 15, 2003 via Express Mail No. EL529896256US  
wlh/jm



INPUT AND OUTPUT STREAMS OF FRAME.

FIG.1

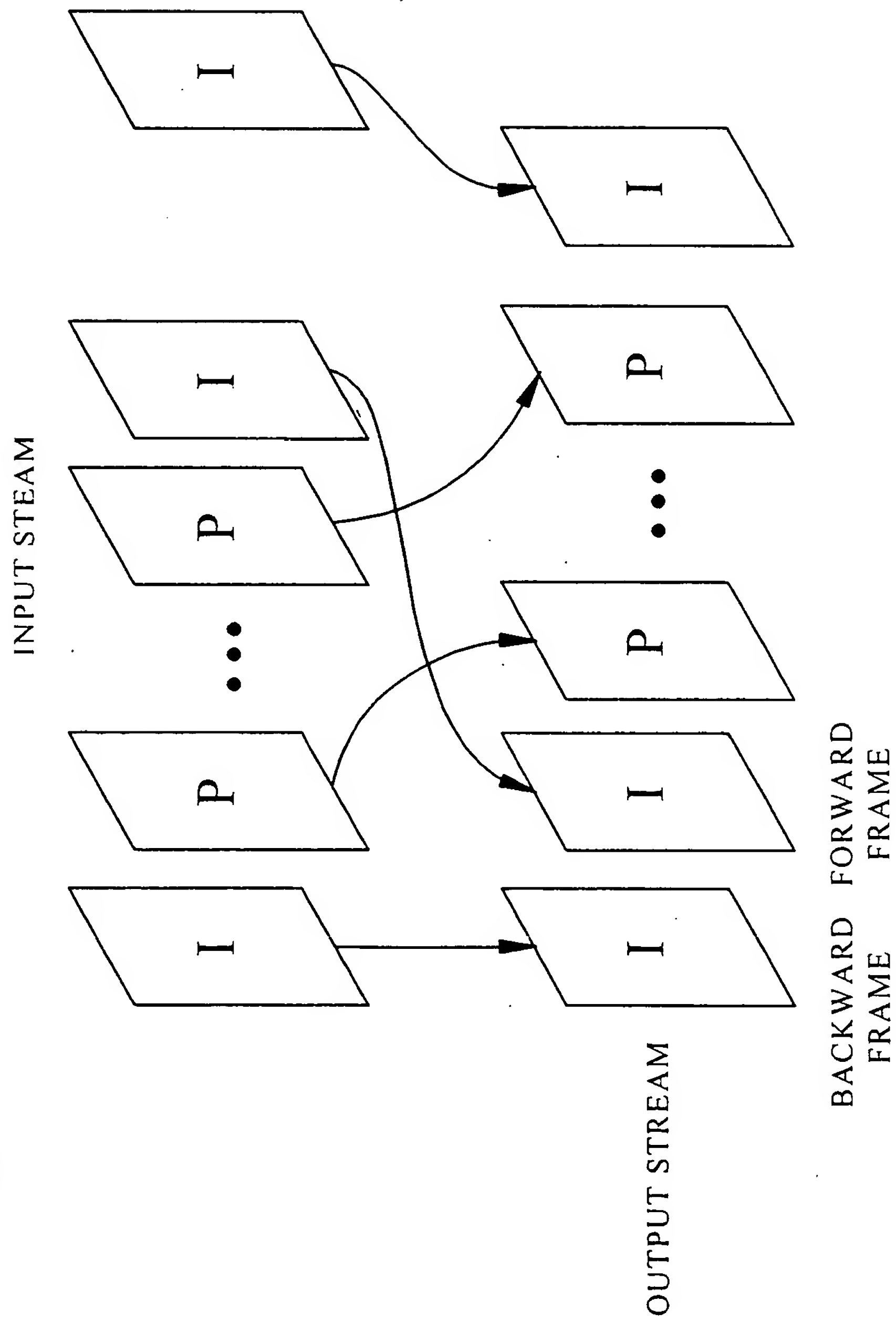
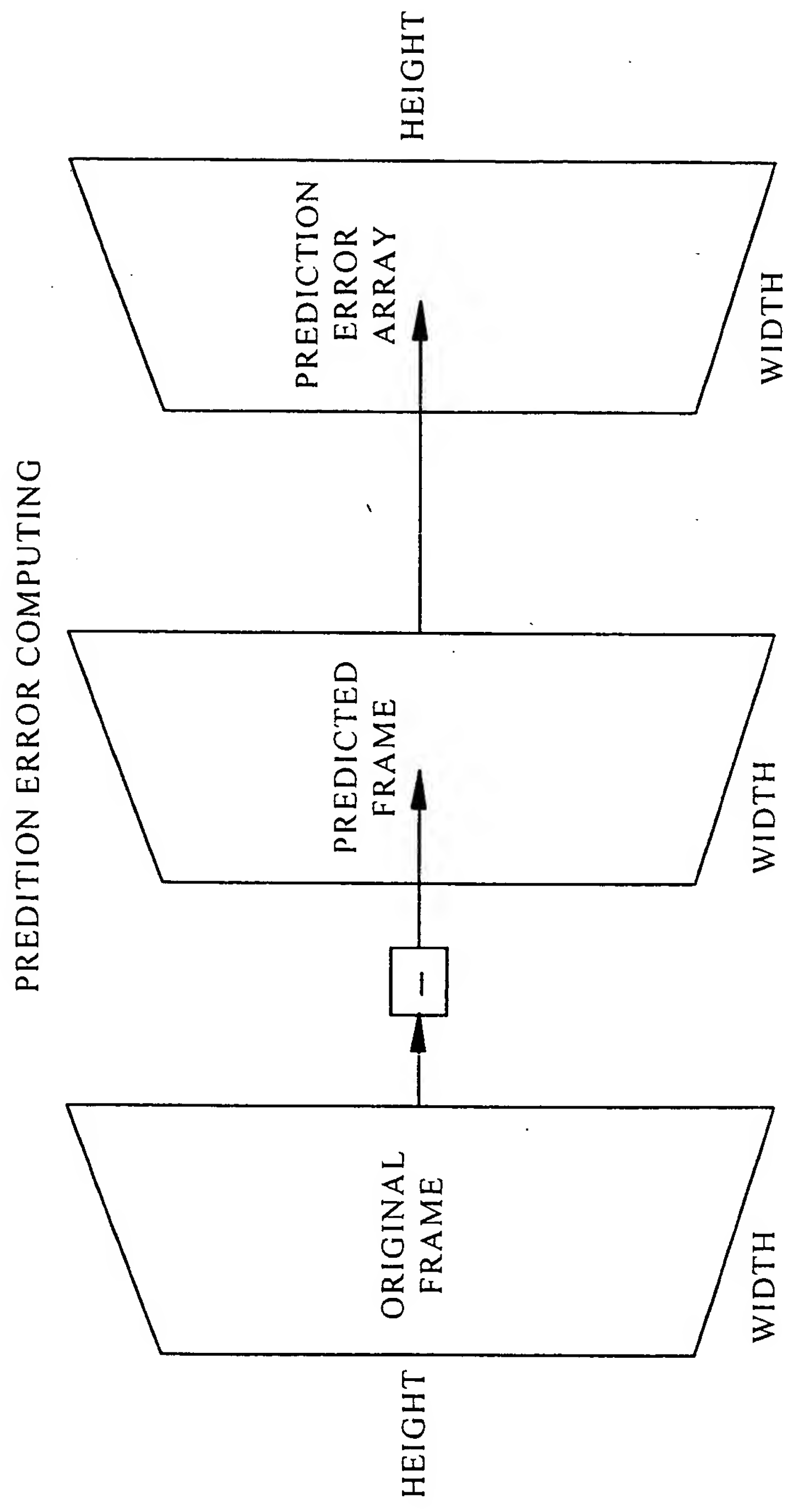


FIG.2



# MOTION COMPENSATION SCHEME

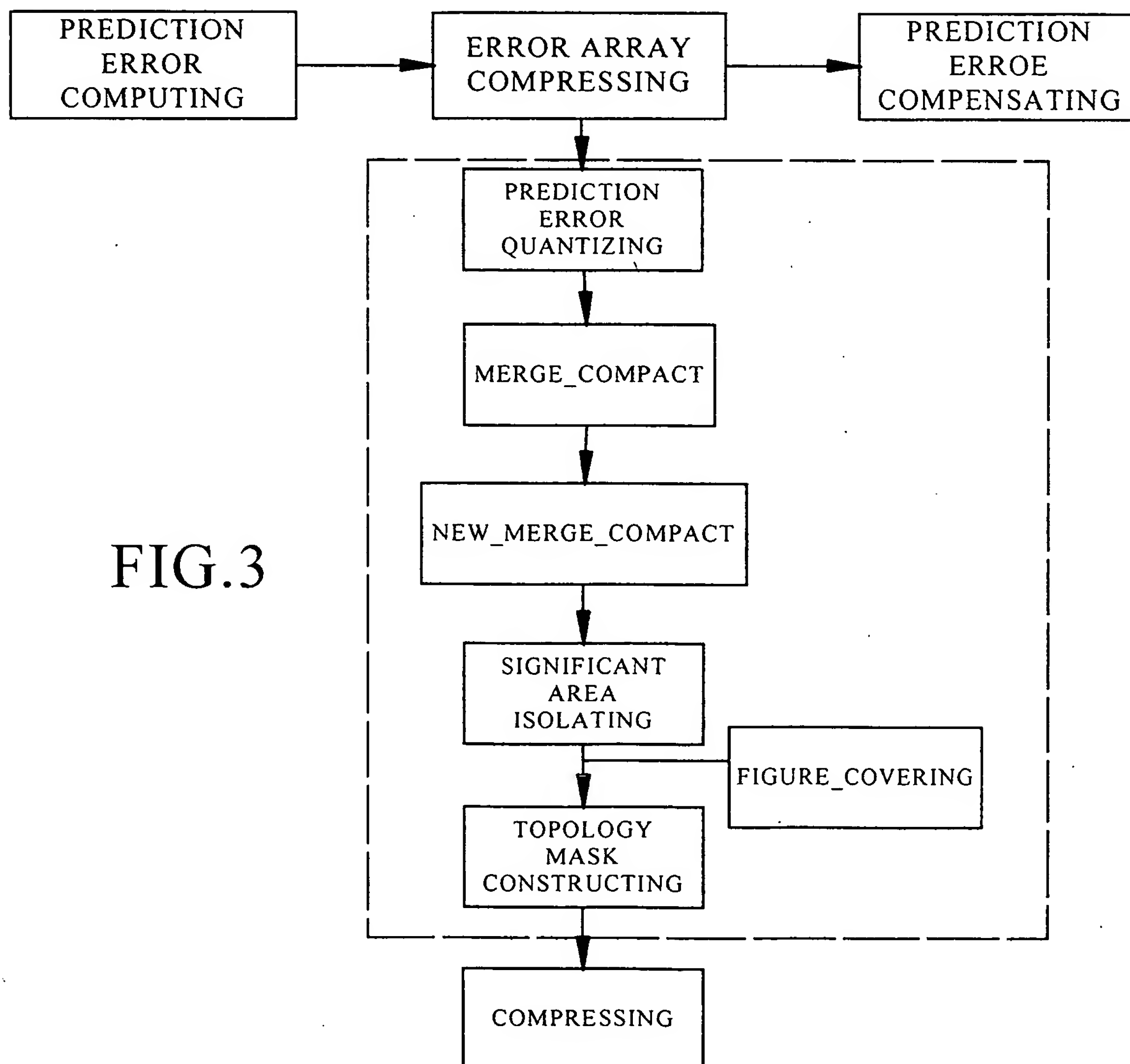
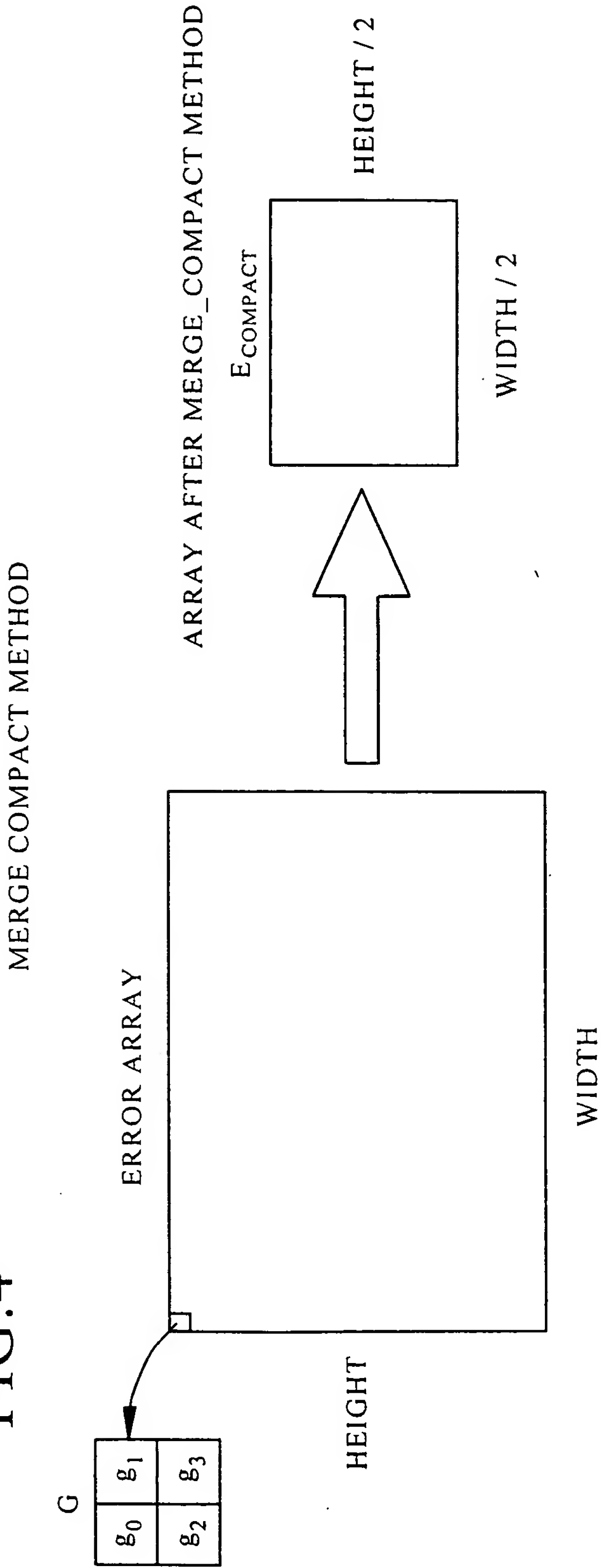


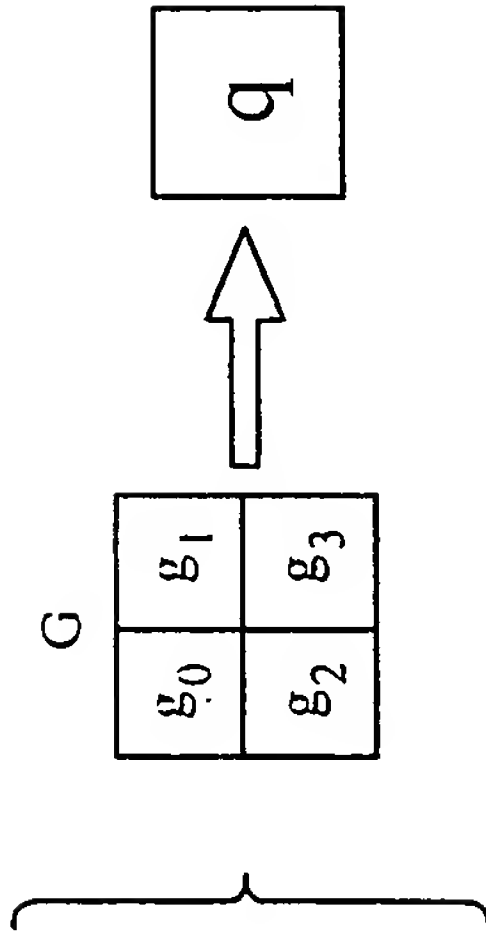
FIG.3

FIG.4

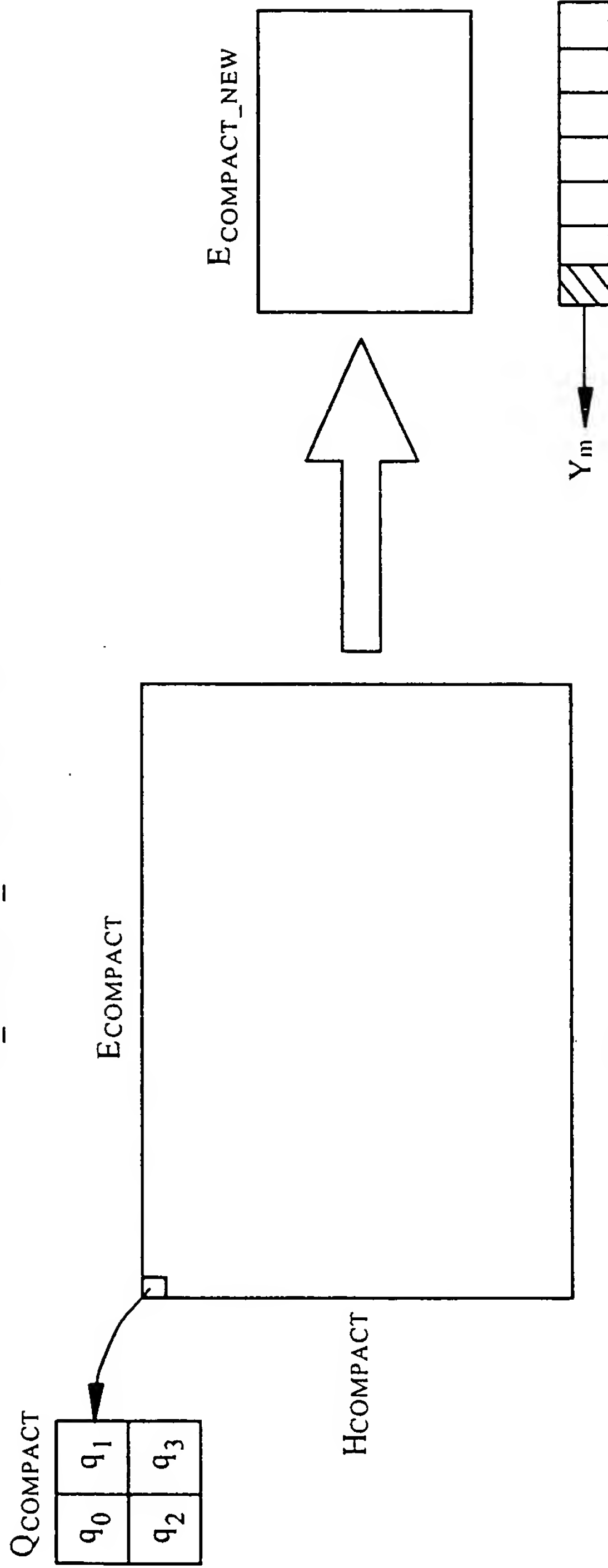


$E_{\text{COMPACT}}$  FORMING CONDITIONS:

1.  $g_0 = g_1 = g_2 = g_3 = x \Rightarrow q = x$ .
2.  $g_i > 0, i=0,3 \Rightarrow q = g_{\min}$ .
3.  $g_i < 0, i=0,3 \Rightarrow q = g_{\min}$ .
4.  $g_i < 0 \& g_i > 0 \parallel g_i = 0, i=\overline{0,3} \Rightarrow q=0$ .



# NEW\_MERGE\_COMPACT METHOD



BIT MASKS:

	$Y_1$	$Y_2$	$Y_3$	$Y_4$	$Y_5$	$Y_6$	$Y_7$	$Y_8$	$Y_9$	$Y_{10}$	$Y_{11}$	$Y_{12}$	$Y_{13}$	$Y_{14}$
0	0	0	1	0	0	1	0	1	0	1	0	1	0	1
1	1	1	0	1	1	0	1	0	1	0	1	0	1	0

FIG.5



FIG.6

NEW\_MERGE\_COMPACT METHOD EXAMPLE

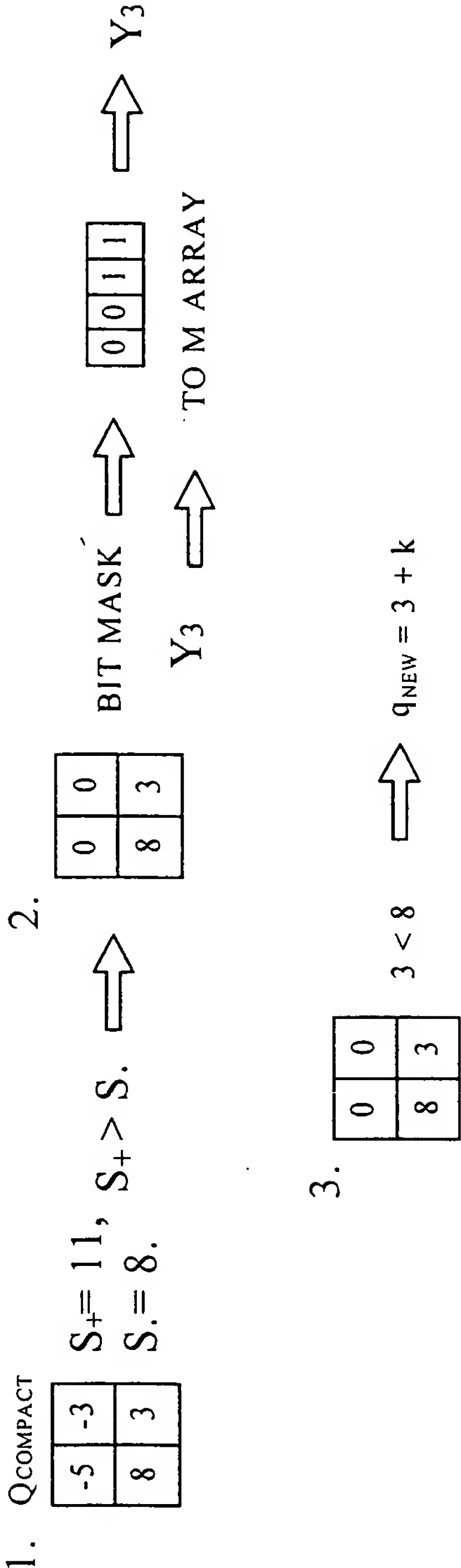


FIG.7

SIGNIFICANT AREA ISOLATING

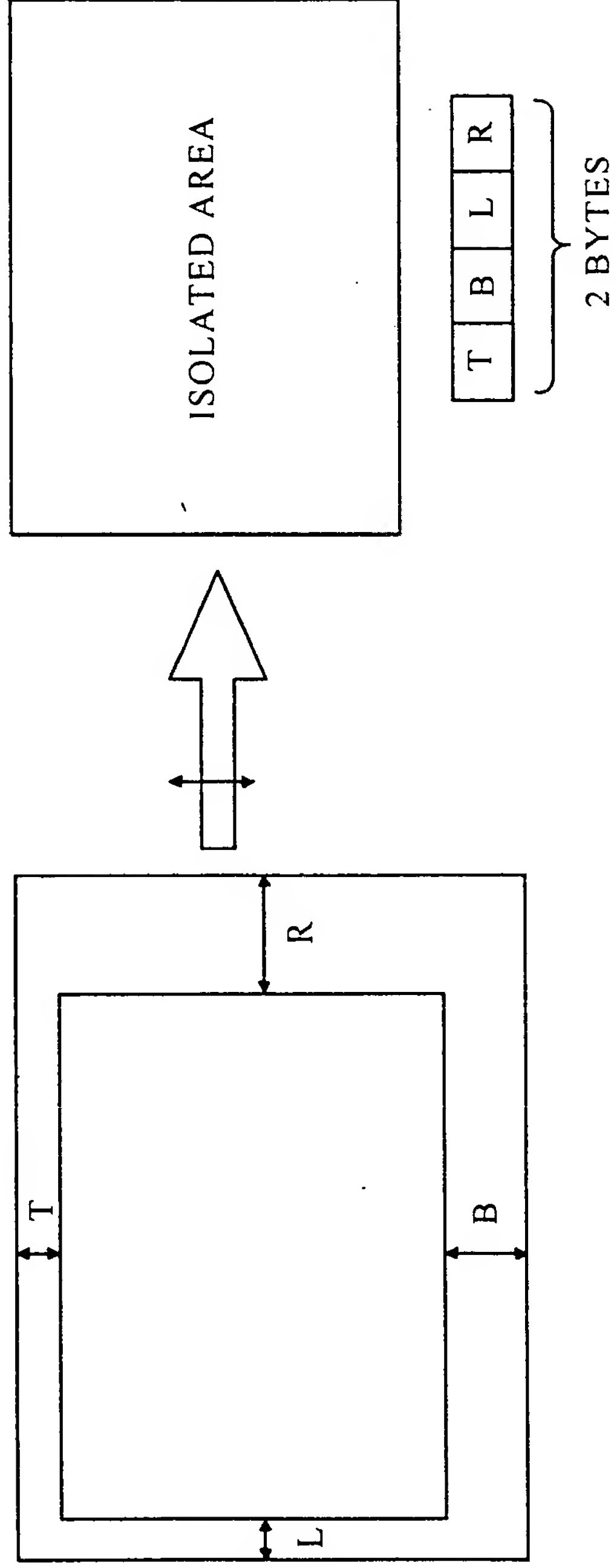


FIG.8

FIGURE COVERING METHOD

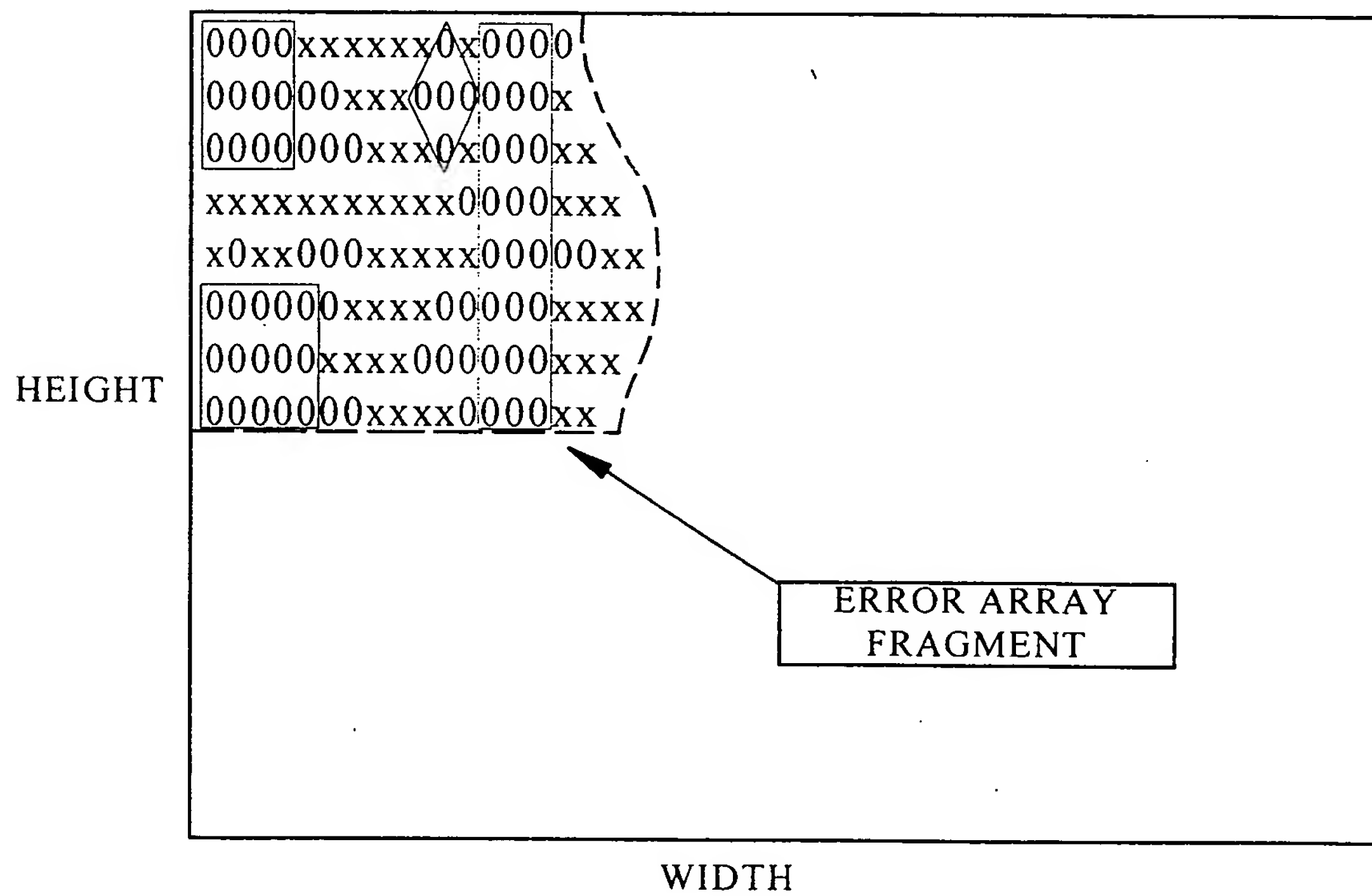
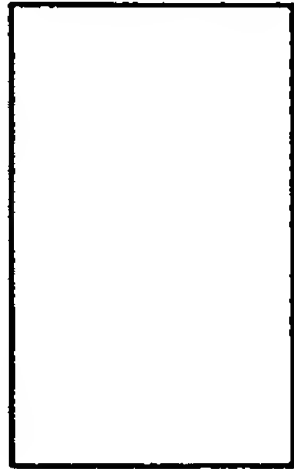


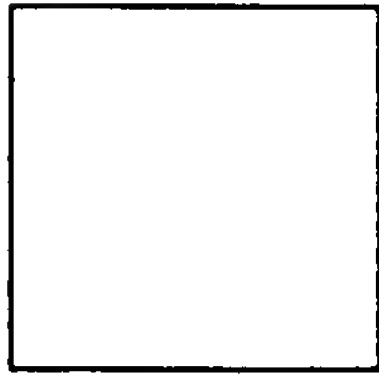
FIG.9

GEOMETRIC FIGURE TYPES USED FOR FIGURE COVERING  
METHOD AND DATA WRITING ORDER

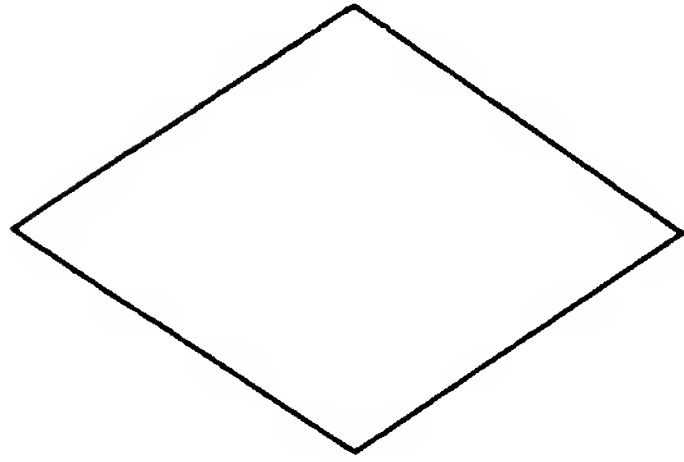
FIGURE TYPES:



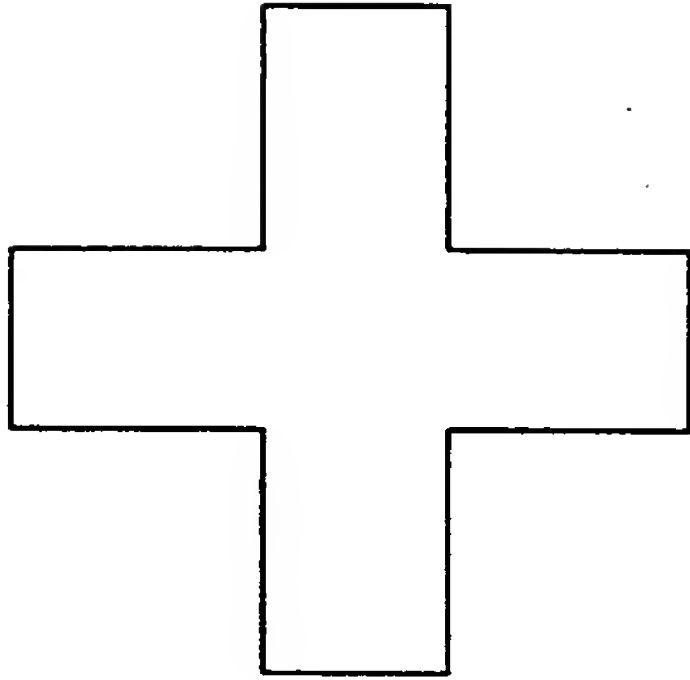
RECTANGLE



SQUARE



RHOMBUS



CROSS

DATA WRITING ORDER:

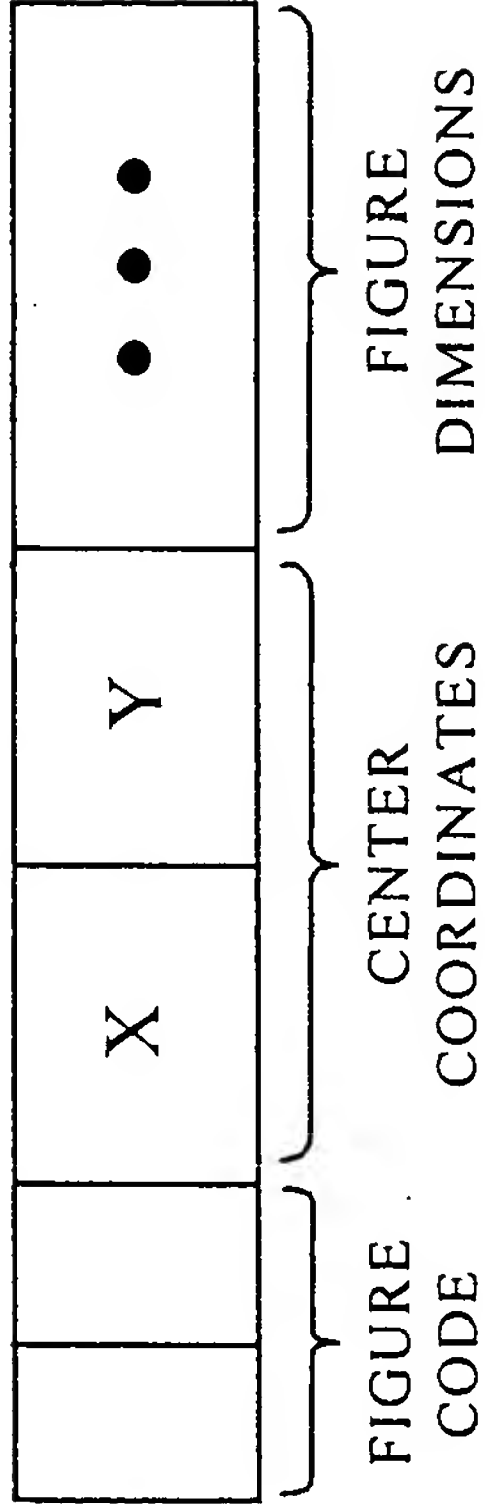
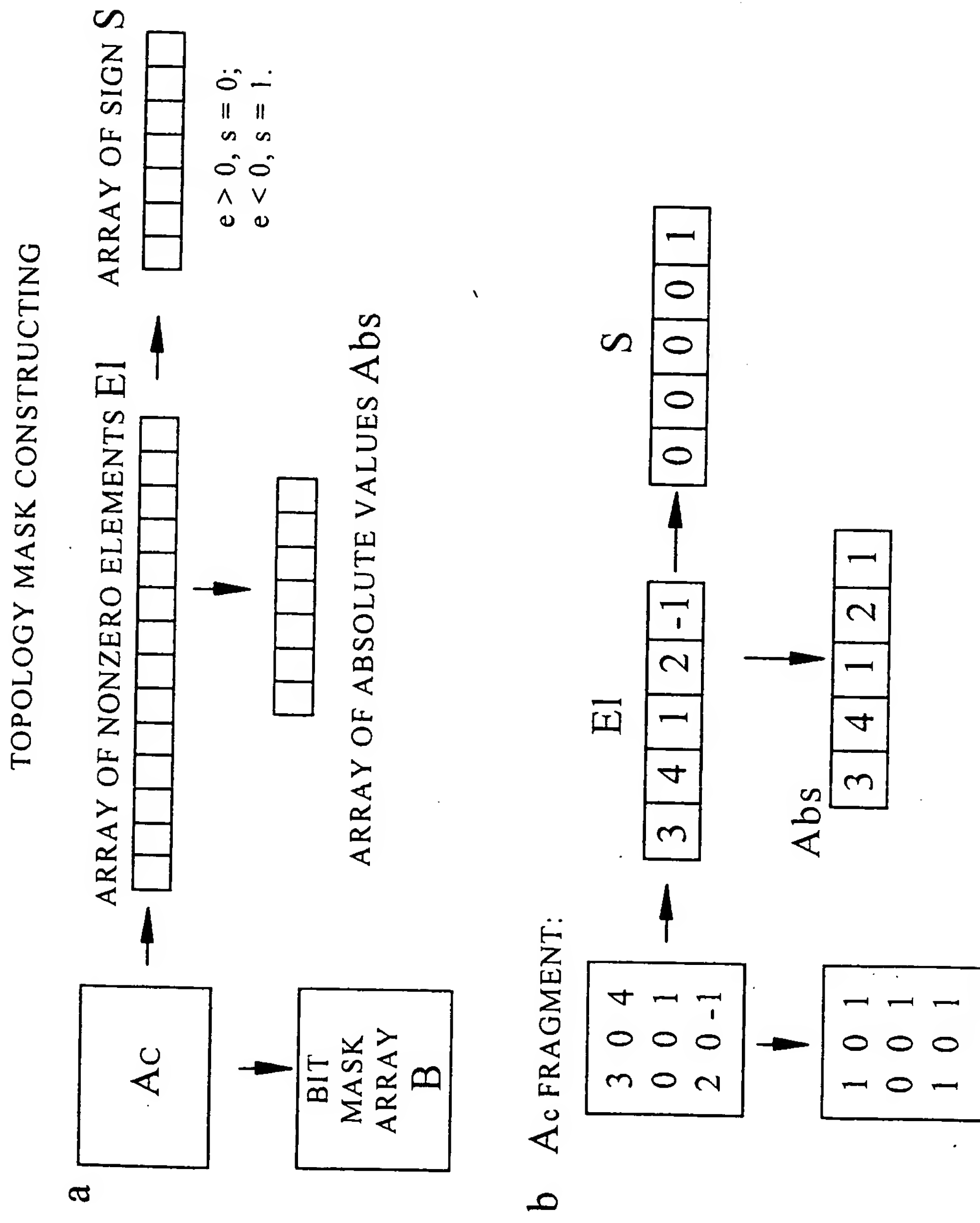
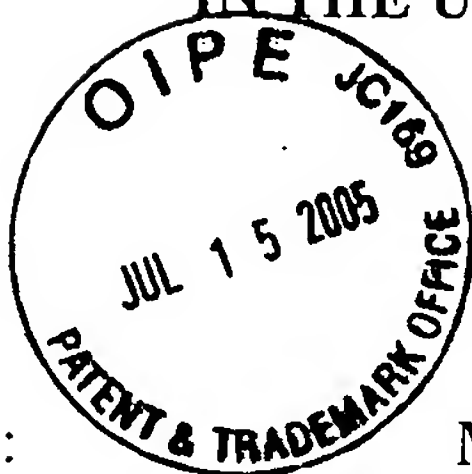


FIG.10



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Transmittal of New Patent Application

Title: Motion Compensation Method for video Sequence Encoding in Low Bit Rate Systems

Inventors: Hiroshi Akimoto and Okeksandr v. Monasyrskyi

Atty Docket No.: SCT105U

Mail Stop Patent Application  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Transmitted herewith for filing is the above referenced patent application.

I. This is a new application for a patent.

II. Benefit of prior U.S. Application under 35 USC 119(e) is being claimed. Enclosed is one page of ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION IS CLAIMED.

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this correspondence (and any correspondence being indicated as attached or enclosed) is being deposited with the U.S. Postal Service as "Express Mail Post Office to Addressee" Mailing Label Number EL529896256US addressed to: Mail Stop Patent Application, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

on 07/15/03  
Date

Jolene R. McCracken  
Signature

Jolene R. McCracken  
Name of person signing certificate

III. The following papers are enclosed which are required for obtaining a filing date under 37 CFR 1.53(b) or 1.153:

19 pages of specification

2 pages of claims

1 page of Abstract

10 sheets of drawings

IV. The Oath or Declaration of Inventorship executed by the inventor is enclosed. The inventor qualifies for small entity status.

V. The inventorship for the claims in this application is as follows: all claims are attributable to the named inventor.

VI. The language of the application is English.

VII. An assignment of the invention has been made. The assignment documents and recordation cover sheet are enclosed with this transmittal.

VIII. Because the present application does not claim priority to a foreign application, no certified copies thereof are being provided.

IX. Fee Calculation:

A. For a Utility application, the basic fee is \$750.00 plus claim surcharges:

Filed	Allowed	Extra	Rate	Surcharges
Total Claims: 1	- 20	= 0	X \$18.00	\$00.00
Independent Claims:	- 3	= 0	X \$84.00	\$00.00
Multiple Dependent: 0	- 0	= 0	X \$280.00	\$00.00

Total Due: \$750

X. Small entity is being claimed for this application under 35 U.S.C. 119(e).

Filing Fee Calculation (50% of A above): \$375.

XI. The basic filing fee as indicated in X above is to be charged to Visa. A Credit Card Payment Form is enclosed.

XII. Please charge any deficit or credit any excess fees to our Deposit Account No. 50-0684.



XIII. Please send all notices and correspondence to David L. Garrison, an attorney identified in the Combined Declaration and Power of Attorney.

Respectfully Submitted,

***Garrison & Associates PS***

A handwritten signature in dark ink, appearing to read "William L. Haynes", written in a cursive style.

William L. Haynes

Reg. No. 48,151

Customer No. 20,482

2001 Sixth Avenue, Suite 3300

Seattle, WA 98121-2522

Tel. (206) 441-3440

Fax. (206) 441-7362

**ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF  
PRIOR U.S. APPLICATION CLAIMED**

**XIV. Relate Back**

**A. 35 U.S.C. 119(e)**

The specification has been amended by inserting, before the first line, the following sentence:

“This application claims the benefit of United States Provisional Application Serial No. 60/227,155, entitled **Portable Attachable Weighing System**, filed August 22, 2000.”

**X. Small Entity (37CFR § 1.28(a))**

Applicants have established small entity status by the filing of a verified statement in parent application 60/227,155 on August 22, 2000.